

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Quali-Sel, Inc.**

Whereas, THERE HAS BEEN PRESENTED TO THE

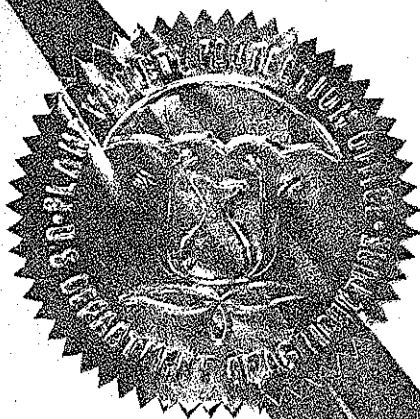
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (U.S.C. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Blanco'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 22nd day of June in the year of our Lord one thousand nine hundred and seventy-eight

Attest:

*Edward E. Keene*  
Acting  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*Bob D. Smith*  
Secretary of Agriculture

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY <del>BLANCO</del> <i>7/7 4/26/78</i>	1b. VARIETY NAME BLANCO	FOR OFFICIAL USE ONLY PV NUMBER 7800062	
2. KIND NAME LETTUCE	3. GENUS AND SPECIES NAME LACTUCA SATIVA L.	FILING DATE 4-24-78	TIME 3:30 <span style="float:right">A.M. P.M.</span>
4. FAMILY NAME (BOTANICAL) COMPOSITAE	5. DATE OF DETERMINATION April 1, 1977	FEE RECEIVED \$ 250.00 \$ 250.00 \$ 250.00	DATE 4-24-78 4-24-78 5-22-78
6. NAME OF APPLICANT(S) QUALI-SEL, INC.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 11 West Laurel Drive, Suite 125 Salinas, California 93906		8. TELEPHONE AREA CODE AND NUMBER (408) 443-1013
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) CORPORATION		10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION CALIFORNIA	11. DATE OF INCORPORATION March 1, 1972
12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:  Quali-Sel, Inc. 11 W. Laurel Drive #125 Salinas, California 93906			

## 13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.
- ☒ ~~Exhibit E, Statement of the Basis of Applicant's Ownership.~~ *7/7 4/26/78*

- 14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) ☐ YES ☒ NO
- 14B. Does the applicant(s) specify that this variety be limited as to number of generations? ☐ YES ☒ NO
- 14C. If "Yes," to 14B, how many generations of production beyond breeder seed? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED
15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal? *7/7 4-26-78* ☒ YES ☒ NO
16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

April 13, 1978

(DATE)

(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)



**QUALI-SEL, INC.**

VARIETY: BLANCO

**7800062**

EXHIBIT A

Origin and Breeding History of the Variety

1. BLANCO originated from a hand pollinated cross between Vanguard and Calmar. The cross was made in the Salinas Valley of California in 1970 by Quali-Sel Seeds personnel.
2. Initial trial plantings were conducted in 1971 to allow for individual plant selection work. Several subsequent trial plantings were made following the initial selection process to allow for segregation and more comprehensive evaluations and selections. Selections were made on the basis of size, color, texture and heading capabilities.
3. The procedures involving trial plantings, evaluations and plant selections were repeated numerous times before finally attaining the desirable plant type. These plantings were conducted in Yuma, Arizona, and the Salinas, San Joaquin and Imperial Valleys of California. Final selection was made in the Salinas Valley.
4. BLANCO is genetically uniform and free of any distinct variations.



QUALI-SEL, INC.

7800062

VARIETY: BLANCO

EXHIBIT <sup>B</sup> ~~A~~ 7/5 4/26/78

DATA INDICATIVE OF NOVELTY

Blanco most closely resembles the varieties Vanguard and Calmar. The distinguishing features of Blanco compared to Vanguard and Calmar include:

1. Vanguard

- A. Vanguard is not suited to the warm period of the summer months of Central California coastal valley climates. It has very poor heading character during this period. Blanco is extremely uniform in its heading formation, making a solid head which is characteristic of crisp-head plant types during the same growing period compared to Vanguard.
- B. Blanco has greater bolt tolerance compared to Vanguard.
- C. Blanco seed is white.

2. Calmar

- A. Calmar has poor performance during the warm period of the summer months of Central California coastal valley climates. Calmar will produce lettuce that is too large, will lack solidity, and at times bolt if planted during this period. Blanco is extremely uniform in its head formation as explained above during this same period.
- B. Blanco has greater bolt tolerance compared to Calmar. Grown during the same warm period, Blanco core height will remain at three inches at maturity, while Calmar may exceed five inches with some heads bolting.
- C. Blanco has more desirable texture than Calmar, making it a far better variety for shipping great distances.

Blanco is unique in that it is a Vanguard type that will produce marketable lettuce of optimum size and texture in a warm period as compared to Vanguard and Calmar.

OBJECTIVE DESCRIPTION OF VARIETY  
(LETTUCE)

INSTRUCTIONS: See reverse.

NAME OF APPLICANT(S)

Quali-Sel, Inc.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

11 West Laurel Drive, Suite 125  
Salinas, California 93906

FOR OFFICIAL USE ONLY

PVPO NUMBER

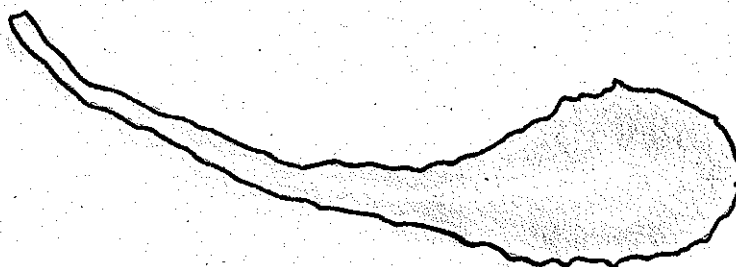
297 - 1 - 7800062

VARIETY NAME OR TEMPORARY  
DESIGNATION

BLANCO

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. PLANT TYPE:		30 = COS	40 = CRISPHEAD
<input type="text" value="4"/> <input type="text" value="3"/>	10 = CUTTING (Leaf) 50 = BUTTERHEAD 70 = OTHER (Specify)	31 = SELF-CLOSING GROUP 32 = LOOSE-CLOSING GROUP	41 = IMPERIAL GROUP 42 = GREAT LAKES GROUP 43 = VANGUARD 44 = NEW YORK GROUP
2. SEED COLOR:		3. ANTHOCYANIN:	
<input type="text" value="1"/>	1 = WHITE 2 = BLACK 3 = YELLOW	<input type="text" value="1"/>	1 = ABSENT 2 = PRESENT
4. LEAF CONTAINING ANTHOCYANIN:			
<input type="text" value="4"/>	1 = COVERED 2 = SPOTTED 3 = ALONG MARGIN 4 = ABSENT 5 = OTHER (Specify)		
5. LEAF SURFACE TEXTURE:		6. LEAF SURFACE REFLECTANCE:	
<input type="text" value="2"/>	1 = SMOOTH 2 = BLISTERED	<input type="text" value="1"/>	1 = DULL 2 = GLOSSY 3 = OTHER (Specify)
7. LEAF MARGIN:		8. LEAF SHAPE:	
<input type="text" value="2"/>	1 = STRAIGHT 2 = WAVY 3 = CURLED	<input type="text" value="1"/>	1 = ENTIRE 2 = DENTATE 3 = INCISED 4 = DEEPLY INCISED 5 = OTHER (Specify)
<input type="text" value="1"/>	1 = ROUNDED 2 = POINTED	<input type="text" value="1"/>	1 = BROADER THAN LONG 2 = LONGER THAN BROAD 3 = OTHER (Specify)
9. LEAF COLOR: (See reverse.)			
<input type="text" value="7"/>	1 = RED 2 = REDDISH-BROWN 3 = YELLOW 4 = YELLOWISH-GREEN 5 = GREYISH-GREEN 6 = BLUE-GREEN 7 = DARK-GREEN 8 = VERY DARK GREEN		
10. HEADS:		11. PLANT SIZE: (See reverse.)	
<input type="text" value="1"/>	1 = SPHERICAL 2 = FLATTENED 3 = ELONGATE 4 = POINTED 5 = NON-HEADING	<input type="text" value="2"/>	1 = SMALL 2 = MEDIUM 3 = LARGE
12. CULTURE:			
<input type="text" value="1"/>	1 = SUMMER CROP 2 = WINTER CROP 3 = NOT SPECIFIC 4 = UNDER GLASS 5 = OTHER (Specify)		
13. SIZE OF 10-DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C.: (Place a zero in first box (i.e. 012)) when size is 9 mm. or less.)			
<input type="text" value="5"/> <input type="text" value="8"/>	mm. LENGTH OF SEEDLING	<input type="text" value="2"/> <input type="text" value="5"/>	mm. LENGTH OF COTYLEDON
<input type="text" value="0"/> <input type="text" value="6"/>	mm. WIDTH OF COTYLEDON		
14. DISEASE RESISTANCE TO: (Enter zeroes in box(es) where there is no special disease resistance.)			
<input type="text" value="0"/>	1 = TIPBURN	<input type="text" value="0"/>	2 = MOSAIC
<input type="text" value="0"/>	3 = DAMPING OFF	<input type="text" value="0"/>	4 = DOWNY MILDEW
<input type="text" value="0"/>	5 = SCLEROTINIA ROT	<input type="text" value="0"/>	6 = BROWN BLIGHT
<input type="text" value="0"/>	7 = BIG VEIN	<input type="text" value="0"/>	8 = OTHER (Specify)
15. OUTLINE THE FOURTH LEAF: (For standardization purposes, the fourth leaf should be taken from a 20-day old plant grown under constant light.)			



## 16. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER		NAME OF VARIETY				
Leaf color		Vanguard				
Leaf pigmentation		Vanguard				
Leaf shape		Vanguard				
Plant size		Calmar				
Head size		Calmar				
VARIETY	NO. OF DAYS TO HEAD MATURITY UNDER WINTER CROPPING	LOCATION	NO. OF DAYS TO HEAD MATURITY UNDER SUMMER CROPPING	LOCATION	NO. OF DAYS TO SEED STALK EMERGENCE UNDER SUMMER CROPPING	LOCATION
Submitted	Approx. 99 Days	Yuma, AZ	Approx. 68 days	Salinas, CA	Approx. 115 days	San Joaquin Valley, CA
Similar	Approx. 96 Days	Yuma, AZ	Approx. 65 days	Salinas, CA	105 days	San Joaquin Valley, CA
Name of similar variety	CALMAR		CALMAR		CALMAR	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. C. M. Rodenburg, 1960, Varieties of Lettuce, An International Monograph, Institut voor de Veredeling van Tuinbouwgewassen, Wageningen, Holland.
2. L. L. Morse, 1930, Field Notes on Lettuce, published by Ferry-Morse Seed Co.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following lettuce varieties may be used as a guide to identify the eight colors listed on the form.

Color	Variety
Red	"Salad Trim"
Reddish-brown	"Ruby"
Yellow	"Salad Bowl"
Yellowish-green	"Oakleaf"
Greyish-green	"White Boston"
Bluish-green	"Bibb"
Dark-green	"Imperial" group
Very dark green	"Deer Tongue"

PLANT SIZE: The following varieties may be used as a guide to identify the plant type size:

5

TYPE	COMPARABLE VARIETIES		
	SMALL	MEDIUM	LARGE
Cutting (leaf)	Boston-Curled	Prize Head	Grand Rapids
Stalk (stem)	Celtuce	--	--
Cos	Express	Parris Island	Giant White
Crisphead	Mignonette	Hanson (Merit)	Climax
Butterhead	Tom Thumb	Big Boston	Mammoth Butter
Latin	Sucrino	Creole	Deer Tongue

EXHIBIT D

to  
ASSET ACQUISITION AGREEMENT  
by and between  
BRUCE CHURCH, INC., a California corporation,  
and  
KONINKLIJKE ZAAIZAADBEDIJVEN GEBROEDERS SLUIS, B.V.,  
a corporation formed under the laws of The Netherlands

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES

WHEREAS, BRUCE CHURCH, INC., a California corporation the mailing address for which is P.O.Box 80599, Salinas, California U.S.A., 93912-0599, is the owner of certain Plant Variety Protection Certificates issued either to BRUCE CHURCH, INC., or to QUALI-SEL, INC., a Delaware corporation by the Plant Variety Protection Office or by the United States Department of Agriculture, all as listed below (referred to collectively as the PVPs"); and

WHEREAS, KONINKLIJKE ZAAIZAADBEDIJVEN GEBROEDERS SLUIS, B.V., a corporation formed under the laws of The Netherlands, the mailing address for which is Post Box 22, 1600 AA Enkuisen, The Netherlands, is desirous of acquiring the PVP's and the certificates and application thereof;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, BRUCE CHURCH, INC and QUALI-SEL, INC., hereby assigns to KONINKLIJKE ZAAIZAADBEDIJVEN GEBROEDERS SLUIS, B.V. all right, title and interest in and to the PVPs.

The Plant Variety Protection Office is requested to record the assignment of the PVPs in accordance with Section 101 of the Plant Variety Protection Act (7 U.S.C. 2531).

PVP Certificate Number	Date of Issuance	Owner	Name of Variety	PVP Issued To
7400010	April 8, 1975	Bruce Church, Inc.	Red Coach 74	Quali-Sel, Inc.
8600108	January 15, 1988	Bruce Church, Inc.	Vancrisp	Quali-Sel, Inc.
7800014	April 20, 1978	Bruce Church, Inc.	Winter Supreme	Bruce Church, Inc.
8000043	May 15, 1980	Bruce Church, Inc.	Viva II	Bruce Church, Inc.
<del>7800062</del>	<del>June 22, 1978</del>	<del>Bruce Church, Inc.</del>	<del>Blanco</del>	<del>Quali-Sel, Inc.</del>
7900095	January 2, 1980	Bruce Church, Inc.	Viva	Bruce Church, Inc.

Note: The PVP name "Viva" had been changed to "Diplomat", the name change has been approved by the U. S. Department of Agriculture, Livestock and Seed Division. See attached correspondence relative to name change being processed by the Plant Variety Protection Office.





QUALI-SEL, INC.

7800062

VARIETY: BLANCO

EXHIBIT <sup>D</sup>/<sub>B</sub> 7/4 4/26/78

#### BOTANICAL DESCRIPTION OF THE VARIETY

Annual: A crisphead variety with a large sized frame. Wrapper leaves are slightly savoyed with the dull "Vanguard" shade of green color. Wrapper leaves are broad and thick and are similar to Calmar in size.

Head is spherical with thick leaves. Butt of plant is usually smooth, core being of large diameter size but low in vertical distance. Petioles are medium smooth with good color. This variety is best adapted to the warm summer months of Central California coastal valley climates.


Seed stalk is very uniform in height. Produces a medium sized panicle similar to Calmar and is a heavy seed yielder. Seed color is white.

This assignment is executed this 7th day of March, 1988, at Salinas, California.

Quali-Sel, Inc.

By   
Its Vice President

Bruce Church, Inc.

By   
Its President

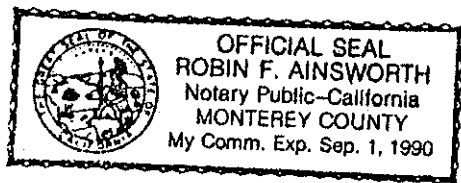
Acknowledgement for Corporation

State of California)

) SS

County of Monterey)

On this 7th day of March, in the year 1988, before me Edward H. Taylor, personally known to me to be the person who executed the within instrument as vice president of Quali-Sel, Inc. and president of Bruce Church, Inc. and acknowledged to me that the corporation executed it.



  
Notary Public



# ROYAL SLUIS INC.

1293 HARKINS ROAD, SALINAS, CA 93901

June 29, 1988

Ms. Ann Zempolich  
Plant Variety Protection Office  
National Agricultural Library, Room 500  
Beltsville, Maryland 20705

Dear Ms. Zempolich:

Re: Your letter of June 17, 1988, regarding transfer of 10 lettuce varieties.

Please direct all correspondence regarding these varieties to our Salinas, California, address.

Thank you.

Sincerely,

Dean C. Gregg

*File PV # 7800062*

In lieu of all other warranties, expressed or implied, and liability for possible negligence, Seller warrants to the extent of the purchase price that the seeds sold are as described by us on our container within recognized tolerances. Seller expressly disclaims any warranty of merchantability or of fitness for a particular purpose. Under all circumstances and regardless of whether the claim is based upon contract, negligence, mistake, omission or otherwise and regardless of the extent of the loss, liability is limited to the purchase price of the seeds. As a condition to such liability we must receive notice by Registered Mail within thirty days after any defect in the seed becomes apparent that same are defective.